

STATE OF MISSOURI  
DEPARTMENT OF NATURAL RESOURCES

Bob Holden, Governor • Stephen M. Mahfood, Director

www.dnr.state.mo.us

MAR - 3 2003

CERTIFIED MAIL: 70020860000769687994  
RETURN RECEIPT REQUESTED

Mr. Kenny Wilson, Facility Manager  
Bunge North America, Inc.  
401 S. Main  
LaGrange, MO 63448

RE: Return Receipt of the Intermediate Operating Permit Notification/Application  
Project No. 2002-11-072

Dear Mr. Leonard:

Attached is your stamped copy of the notification (application) that you submitted. You must keep this copy of the notification at the installation for inspection purposes. Please note the expiration date on the notification. You must submit your renewal notification six (6) months prior to the expiration date. This notification (application) is the operating permit until, and unless, you are notified otherwise. It is very important that you read and understand this legal document.

You are also required to file a compliance report annually by April 1<sup>st</sup>, for the previous twelve (12) month period. A blank copy of the forms is attached.

Intermediate State Installation operating permits must also go through a public review and comment period. Once we have determined your notification (application) to be technically complete, your draft notification (application) will go through a public participation period in which the Air Pollution Control Program will issue a public notice. After the comment period ends, you will be asked to work with us to address any comments. An acceptance letter will be sent to you after all comments have been appropriately addressed. You must continue to abide by all the conditions and requirements stated in your notification (application).

Technical completeness involves reviewing the application to see that it includes all the necessary information, i.e., applicable requirements including any provision volunteered in the application to be below applicability levels for Part 70 permitting requirements with appropriate compliance demonstration methods. Should your application be determined to be incomplete (e.g. contain inappropriate, insufficient or inaccurate applicable requirements), you will be contacted as to what additional information, forms or revisions are required.

If you have any questions, please contact me at (573) 751-4817, or you may write to the Department of Natural Resources, Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102.

Thank you,

AIR POLLUTION CONTROL PROGRAM



Pamela Muren  
Operating Permit Unit Chief

PM/ssA

Enclosure

c: Ms. Harriett Jones, EPA Region VII w/ copy of application  
Amy Baker, Southeast Regional Office  
PAMS File: 2002-11-072

*Integrity and excellence in all we do*



State of Missouri  
Department of Natural Resources  
Air Pollution Control Program  
P.O. Box 176  
Jefferson City, MO 65102

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For Office Use Only

Facility Name: \_\_\_\_\_

Permit No.: \_\_\_\_\_

Facility ID No.: \_\_\_\_\_

Effective Date \_\_\_\_\_

Expiration Date: \_\_\_\_\_

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**GENERAL PERMIT/APPLICATION TO OPERATE  
A GRAIN ELEVATOR AND/OR GRAIN PROCESSING  
INSTALLATION**

for

**Option C - Intermediate State**  
Based on Emission Worksheets

In compliance with the provisions of Missouri State Rule 10 CSR 10-6.065, this grain elevator and/or grain processing installation with potential emissions of less than 100 tons per year of particulate matter less than or equal to 10 microns in aerodynamic diameter ( $PM_{10}$ ) is authorized to operate in the State of Missouri, in accordance with emissions limitations, operating requirements and other conditions set forth in this General Permit.

State of Missouri  
Department of Natural Resources  
Air Pollution Control Program

RECEIVED  
NOV-7 PM 3:25  
POLLUTION  
CONTROL DIV.

**GRAIN ELEVATOR AND GRAIN PROCESSING  
GENERAL AIR QUALITY OPERATING PERMIT APPLICATION  
-- INTERMEDIATE STATE --  
(Option C)**

Complete and submit to:

Missouri Department of Natural Resources  
Air Pollution Control Program  
P.O. Box 176  
Jefferson City, MO 65102-0176

CHECK NO. 80046525  
CHECK RECEIVED 11-7-02  
CHECK DATE 11-1-02  
CHECK AMOUNT \$500/100.00 *BA*

All applications must be submitted in duplicate and accompanied by a single \$100 filing fee.

**Section I - GENERAL INFORMATION**

A. Installation Name Bunge North America, Inc.			County No. 2640	Plant No. 0006	Year Submitted 2002
Installation Street Address 401 S. Main			County Name Lewis		
City LaGrange	State MO	Zip Code 63448	Installation Phone No. ( 573 ) 655-2281		
Installation Mailing Address 401 S. Main			Installation Fax No. ( 573 ) <del>655-2281</del>		
City LaGrange	State MO	Zip Code 63448	Date: <u>11 / 07 / 02</u> Expires: <u>11 / 06 / 07</u>		
Contact Person (Last) (First) (MI) Kenny Wilson			Staff: <u>SS</u> MDNR-AP		
Contact Person Title Facility Manager		1/4	1/4	Section 31	Township 61N Range 5W
B. Parent Company Name Bunge North America, Inc.		Contact Person Loren Polak		Phone No. ( 314 ) 292-2374	
Mailing Address P.O. Box 28500		City St. Louis		State MO	Zip Code 63146
C. Installation Type (check one): <input checked="" type="checkbox"/> Country Elevator <input type="checkbox"/> Feed Mill <input type="checkbox"/> Grain Elevator/Grind & Mix Feed <input type="checkbox"/> Terminal Elevator					

D. Subpart DD Applicability:

If a grain elevator, does your installation have grain storage capacity greater than 2.5 million bu. and have any affected facilities as noted in the first page of the instructions that commenced construction, modification, or reconstruction after August 3, 1978?

☐ Yes ☒ No

If you checked "yes" above, go to Section 6.02 2. of the General Permit (Section VII) to check the "applicable" boxes for Missouri State Rule 10 CSR 10-6.070, New Source Performance Standards, Subpart DD and for the affected facilities at your installation.

E. Type of Application:

☒ Initial ☒ Renewal (Current Permit No. 9805278) ☐ Minor Permit Modification

☐ De Minimis Modification ☐ Administrative Amendment

(If this is the first time, check "initial.")

**SECTION II - EMISSION INVENTORY.** If your installation has not previously submitted the annually required Emission Inventory Questionnaire Forms, you need to obtain these forms and submit them with this application in duplicate. Otherwise, you do not need to submit these forms. Amendments or changes to a previously submitted EIQ must be submitted at the same time as the general operating permit application. The additional EIQ forms must clearly state that they are replacement or additional forms.

**SECTION III - POTENTIAL EMISSIONS.** See instructions.

Option C:

**Intermediate State Installations -- Emissions Based upon Individually Calculated Receiving or Production Limits and/or Particulate Control Device Requirements.** There are worksheets to determine new limits or requirements for grain elevators and feed mills. Refer to the Instructions, if necessary, for guidance in completing the applicable worksheet(s). Complete the following "emission worksheets" as applicable. Be sure to include present permit limits or requirements when calculating your emissions.

1. **Terminal Elevator Emission Worksheets** are in Attachment A.
2. **Country Elevator Emission Worksheets** are in Attachment B.
3. **Feed Mill Emission Worksheets** are in Attachment C.
4. **Combustion Unit Worksheet** is in Attachment D.
5. **New Permit Conditions.** Enter below "new" receiving or production limits (Table 1), fuel oil combustion limits (Table 3), or pollution control requirements (Table 2) that you entered in the emission worksheets. These are limits and requirements that are necessary to maintain your potential PM<sub>10</sub> emissions and possibly other emissions below 100 tpy. Also, if applicable, be sure to check the "applicable" boxes in Sections 7.01 2., 8.02, and 9.02 of the General Permit (Sect. VII).

NOTE: If sulfur dioxide potential emissions are less than 100 tons per year considering the highest sulfur content as determined by the worksheet, then a sulfur content limit for the fuel oil will not be required except in the City of St. Louis and St. Louis, St. Charles, Jefferson and Franklin Counties. Also, if the potential emissions of the fuel oil combustion unit(s) were considered in the worksheet, and sulfur dioxide potential emissions were less than 100 tons per year, then a "new" fuel oil combustion limit will not be required.

Table 1 - New Receiving and/or Production Limits		
Installation or Process Type	Grain Receiving or Processing Limit (Bu./Yr.)	Feed Production Limit (Tons/Yr.)
Country Grain Elevator	20,000,000	
Terminal Grain Elevator		
Grain Elevator/Feed Grind & Mix		
Feed Mill		

Table 2 - New Particulate Control Device Requirements			
Control Device Type	Control Device I.D. #	Emission Units Controlled	Emission Unit I.D. #
Baghouse	1	Truck Receiving Pits	1
Baghouse	1	Internal Operations	2
Full Enclosure	2	Internal Operations	2

Table 3 - New Fuel Oil Combustion Limits		
Combustion Unit Description & Emission Unit ID	Fuel Oil Limits	
	Gallons/Yr.	Sulfur (%)

**Section IV - Existing Permit Conditions.** Please note in the tables below existing permit conditions that limit production or process throughputs, amount and type of fuel combusted, or that require the operation of a pollution control device (do not include watering haul roads). These would be found in your State or local agency-issued "Permits to Construct." Also, be sure to note that these same limits and requirements are applicable by checking the "applicable" box in Sections 7.01 1. (if Table A is applicable), 8.01 (if Table B is applicable) and 9.01 (if Table C is applicable) of Section VII - General Permit.

**Table A - Existing Particulate Control Device Permit Requirements**

Permit No. & Condition No.	Control Device Type	Control Device I.D. #	Emission Units Controlled	Emission Unit I.D. #

**Table B - Existing Receiving, Processing or Production Permit Limits**

Permit No. & Condition No.	Installation or Process Type	Grain Receiving or Processing Limit (Bu./Yr.)	Feed Production or Processing Limit (Tons/Yr.)
	Country Grain Elevator		
	Terminal Grain Elevator		
	Grain Elevator/Grind & Mix Feed		
	Feed Mill		
	Other Process (specify): _____		
	Other Process (specify): _____		
	Other Process(specify): _____		

**Table C - Existing Fuel Combustion Permit Limits**

Permit No. & Condition No.	Combustion Unit Description & Emission Unit ID#	LPG Limit (Gallons/Yr.)	Natural Gas Limit (MMCF/Yr.)	Fuel Oil Limits		
				Gallons/Yr.	Sulfur (%)	Other

## Section V - Compliance Statement

- A. Compliance status with respect to all Applicable Requirements effective at time of Permit Issuance as noted in Section VII - General Permit under Section 6.0 - Applicable Requirements.; Section 7.0 - Pollution Control Requirements., if applicable; Section 8.0 - Production or Processing Limits., if applicable; and Section 9.0 - Fuel Combustion Limits, if applicable.

Will your installation be in compliance with all applicable requirements at the time of permit issuance and continue to comply with these requirements?

☒ Yes ☐ No (If yes, go to Subsection B. of this Section; if no, complete 1. - 4. below for each applicable requirement for which compliance is not achieved.)

1. Identify applicable requirement for which compliance is not achieved:

2. Narrative description of how compliance will be achieved with this applicable requirement:

3. Detailed Schedule of Compliance:

Steps

Date Expected

4. Frequency for submittal of progress reports (6 month minimum)

Starting date for submittal of progress reports:

\_\_\_/\_\_\_/\_\_\_

- B. Compliance status with respect to all Applicable Requirements effective after permit issuance:

Will your installation be in compliance with all applicable requirements taking effect during the term of the permit and meet such requirements on a timely basis?

☒ Yes ☐ No (If yes, go to next section; if no, complete 1. and 2. below for each requirement for which compliance is not expected.)

1. Identify applicable requirement that you expect will not be complied with:

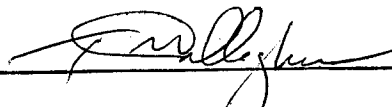
2. Detailed schedule leading to compliance:

Steps

Date Expected

Section VI - Applicant's Certification Statement

"I certify, based on information and belief formed after reasonable inquiry, the statements and information in this document are true, accurate and complete."

Signature of Responsible Official of Company  Date 11/5/02

Type or Print Name of Signer Timothy Gallagher

Official Title of Signer Vice President

Telephone No. 314-292-2808



Section VII - General Permit. Go through the General Permit and address all "check boxes."

## GENERAL PERMIT TO OPERATE A GRAIN ELEVATOR AND/OR GRAIN PROCESSING INSTALLATION

### Section 1.0 - Coverage Under This Permit

- 1.01 This installation shall qualify as an Intermediate State Installation as set forth in Missouri State Rule 10 CSR 10-6.065(1)(C).
- 1.02 This installation shall not qualify as a Basic State or Part 70 Installation as set forth in Missouri State Rule 10 CSR 10-6.065(1)(B) and (D).
- 1.03 The permittee shall be subject to an enforcement action for operating without an individual operating permit if it is later determined that the source does not qualify for this General Operating Permit. The permitting authority's decision to issue this permit is based on the representations made by the permittee in the General Operating Permit Application.

### Section 2.0 - Permit Flexibility and Modifications

- 2.01 The permittee shall have the permit flexibility to make changes at the grain elevator and/or grain processing installation as long as the proposed change is not considered a permit modification or does not exceed the emission limitations in Section 6.0 of this permit. A permit modification includes any proposed change at the installation which increases the potential emissions of PM<sub>10</sub> equal to or greater than 100 tons per year. If the permitting authority considers the proposed change as a modification, the grain elevator shall be required to obtain an individual permit issued under Missouri State Rule 10 CSR 10-6.065(6) Part 70 Operating Permits.
- 2.02 The owner or operator shall provide the permitting authority written notice at least seven (7) days prior to the proposed change. The written notice shall include a brief description of the change(s) within the permitted installation, the date on which the change is to occur, and any change in emissions. The permitting authority will notify the owner or operator whether the proposed change can be completed or will be considered a permit modification and have to undergo the appropriate procedures before the proposed change can be completed.
- 2.03 A permit modification will not be considered a permit change that:
  1. Corrects typographical errors such as misspelled words, incorrect effective date, etc.;
  2. Allows for a change in ownership or operational control of a grain elevator and/or grain processing installation where the permitting authority determines that no other change in the general permit is necessary, provided that a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new permittee must be submitted to the permitting authority;
  3. Incorporates into this permit the requirements of a unified construction permit issued by the permitting authority as long as potential PM<sub>10</sub> emissions are less than 100 tons per year;
  4. Does not increase the potential emissions of PM<sub>10</sub> equal to or greater than 100 tons per year; or
  5. Any other change that the permitting authority determines to be of similar nature to those in this subsection.

### Section 3.0 - Permit Renewal and Expiration

- 3.01 This permit is issued for a fixed term of five (5) years. The permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted.
- 3.02 **Duty to reapply.** The owner or operator of the installation shall submit a timely and complete operating permit application for permit renewal in accordance with this section.
  1. **Timely application renewal.** For purposes of permit renewal, a timely application is one that is submitted at least six (6) months prior to the date of permit expiration.

## 2. Complete application.

- a. An application will be deemed complete if it provides all the information required in the General Permit Application Form.
- b. The application for renewal shall include the current permit number, the appropriate renewal fee, description of any permit revisions and permit changes that occurred during the permit term, and any applicable requirements that were promulgated and not incorporated into the permit during the permit term.
- c. After receipt the permitting authority shall determine whether the application is complete and inform the applicant that it is complete within sixty (60) days after receipt of the application. If the permitting authority determines that the application is not complete, it shall inform the applicant promptly.
- d. An installation which has submitted a timely and complete application may continue to operate without a permit from the date the application is determined to be complete subject to final action by the permitting authority on the renewal application, provided that the applicant submits any requested additional information by the deadline established by the permitting authority.

3. **Permit expiration.** Permit expiration terminates the installation's right to operate unless a timely and complete renewal application has been submitted.

## Section 4.0 - General Compliance/Enforcement Provisions

- 4.01 **Compliance Requirement.** The permittee must comply with the applicable requirements and all conditions of this permit. Any document (including reports) required to be submitted by this permit shall contain a certification by a responsible official.
- 4.02 **Noncompliance.** Any permit noncompliance constitutes a violation and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.
- 4.03 **Severability Clause.** The various requirements of this permit shall remain valid in the event of a challenge to any portions of the permit.

## Section 5.0 - Permit Reopening Provision.

This General Permit may be reopened, revoked and reissued or terminated during its term, for cause.

## Section 6.0 - Applicable Requirements. The following rules shall apply to this installation.

- 6.01 **Installation Level.** The following are deemed by Missouri DNR to be applicable on an installation-wide basis.
  1. **General**
    - a. 10 CSR 10-6.110, *Submission of Emission Data, Emission Fees and Process Information*
      - (1) Emission Fees: \$25.70 per actual ton of pollutant
      - (2) Recordkeeping Requirement: Emission Inventory Questionnaire (EIQ)
      - (3) Monitoring Requirement: None
      - (4) Reporting Requirement: Submit an annual emission inventory on forms, EIQ, furnished by the program by April 1, and shall include emission data, emission fees and process information for the previous calendar year.
    - b. 10 CSR 10-6.065, *Operating Permits*
      - (1) Emission Limitation: None
      - (2) Recordkeeping Requirement: None
      - (3) Monitoring Requirement: None
      - (4) Reporting Requirement: Submission of Annual Compliance Report and/or certification
    - c. 10 CSR 10-6.060, *Construction Permits Required* (See Section IV of the General Permit/Application for State and local permit numbers and requirements.)
      - (1) Emission Limitation: Varies with "Permit to Construct"
      - (2) Recordkeeping Requirement: Varies with "Permit to Construct"

- (3) Testing Requirement: Varies with "Permit to Construct"
- (4) Monitoring Requirement: Varies with "Permit to Construct"
- (5) Reporting Requirement: Reporting required by "Permit to Construct"

d. *Open Burning Restrictions*

- 10 CSR 10-2.100 (Kansas City Area)
- 10 CSR 10-3.030 (Outstate Missouri Area)
- 10 CSR 10-4.090 (Springfield-Green County Area)
- 10 CSR 10-5.070 (St. Louis Area)

- (1) Emission Limitation: No person may conduct, cause, permit, or allow open burning of refuse, for salvage, or trade waste after September 17, 1971. (See specific regulation for exceptions to this limitation.)
- (2) Compliance Demonstration: Previous DNR inspection reports can be used to demonstrate compliance with this regulation.
- (3) Recordkeeping Requirement: DNR inspection reports
- (4) Monitoring Requirement: Periodic DNR inspections
- (5) Reporting Requirement: None

e. *Time Schedule for Compliance (Note: for Kansas City, Springfield-Greene County, and St. Louis Areas only)*

- 10 CSR 10-2.150 (Kansas City Area)
- 10 CSR 10-4.140 (Springfield-Greene County Area)
- 10 CSR 10-5.250 (St. Louis Area)

**Check one:**

☒ Not Applicable                      ☐ Applicable

- (1) Emission Limitation: This regulation specifies the time schedule for compliance with regulations by new and existing sources. Compliance with the new provisions of this regulation shall be according to the following time schedule:

All new installations shall comply as of going into operation; and all existing installations not in compliance as of the effective date; March 25, 1976 for the Kansas City Area, March 25, 1976 for the Springfield-Greene County Area, and March 24, 1967 for the St. Louis Area, shall be in compliance within six (6) months of the effective date.

- (2) Recordkeeping Requirement: None
- (3) Monitoring Requirement: None
- (4) Reporting Requirement: Submit to the Director a compliance plan and schedule if not in compliance with this regulation.

f. 10 CSR 10-6.050, *Start-up, Shutdown, and Malfunction*

- (1) Emission Limitation: None
- (2) Monitoring Requirement: None
- (3) Reporting Requirement: Provide information to demonstrate that the excess emissions were the consequence of a malfunction, start-up or shutdown. The information to be submitted to the director not later than fifteen (15) days after receipt of the notice of excess emissions shall include, at a minimum, the following:
  - (a) Name and location of installation;
  - (b) Name and telephone number of person responsible for the installation;
  - (c) The identity of the equipment causing the excess emissions;
  - (d) The time and duration of the period of excess emissions;
  - (e) The cause of the excess emissions;
  - (f) The type of air contaminant involved;
  - (g) A best estimate of the magnitude of the excess emissions;
  - (h) The measures taken to mitigate the extent and duration of the excess emissions; and
  - (i) The measures taken to remedy the situation which caused the excess emissions and the measures taken or planned to prevent the recurrence of these situations.

g. 10 CSR 10-6.130, *Controlling Potential Emissions During Episodes of High Air Pollution Potential*

- (1) Emission Limitation: This rule specifies the conditions that establish an air pollution alert (yellow/red), watch or emergency and the associated procedures and emissions reduction

objectives for dealing with each.

(2) Recordkeeping Requirement: None

(3) Monitoring Requirement: None

(4) Reporting Requirement: Submission of emergency plan if required by the Director

h. 10 CSR 10-6.150, *Circumvention*

(1) Emission Limitation: No person shall cause or permit the installation or use of any device or any means which, without resulting in reduction in the total amount of air contaminant emitted, conceal or dilute an emission or air contaminant which violates a rule of the Missouri Air Conservation Commission.

(2) Recordkeeping Requirement: None

(3) Monitoring Requirement: None

(4) Reporting Requirement: None

i. 10 CSR 10-5.040, *Use of Fuel in Hand-Fired Equipment Prohibited* (**Note:** for St. Louis Area only)

**Check one:**

☒ Not Applicable

☐ Applicable

(1) Emission Limitation: It shall be unlawful to operate any hand-fired fuel-burning equipment in the St. Louis, Missouri metropolitan area. Hand-fired fuel-burning equipment is defined as any fuel-burning equipment including, but not limited to, furnaces, heating and cooking stoves and hot water furnaces.

(2) Compliance Demonstration: Previous DNR inspection reports can be used to demonstrate compliance with this regulation.

(3) Recordkeeping Requirement: DNR inspection reports

(4) Monitoring Requirement: Periodic DNR inspections

(5) Reporting Requirement: None

2. **PM<sub>10</sub>**

a. 10 CSR 10-6.065, *Operating Permits*

(1) Emission Limitation: Grain receiving and/or feed production limit(s), particulate control device requirement(s), or fuel oil combustion limit(s) as contained in Tables 1, 2, or 3 in Section III, Option C5. of this General Permit/Application.

(2) Recordkeeping Requirement: As required in Sections 8.03 and 9.03 of this General Permit

(3) Monitoring Requirement: None

(4) Reporting Requirement: As required in Sections 8.04 and 9.04 of this General Permit

3. **Visible Emissions**

a. *Restriction of Emission of Visible Air Contaminants*

10 CSR 10-2.060 (Kansas City Area)

10 CSR 10-3.080 (Outstate Missouri Area)

10 CSR 10-4.060 (Springfield-Green County Area)

10 CSR 10-5.090 (St. Louis Area)

(1) Emission Limitation: Opacity of emissions not to exceed or equal 20%

(2) Compliance Demonstration: Previous DNR inspection reports can be used to demonstrate compliance with this regulation.

(3) Recordkeeping Requirement: DNR inspection reports

(4) Monitoring Requirement: Visual inspection, EPA Method 9; Performed during periodic DNR inspections

(5) Reporting Requirement: None

4. **Fugitive Emissions**

a. 10 CSR 10-6.170, *Restriction of Particulate Matter to the Ambient Air Beyond the Premises of Origin*

(1) Emission Limitation: No visible particulate matter in the ambient air beyond property line of origin; or, no particulate matter found on surfaces beyond property line of origin.

(2) Compliance Demonstration: Previous DNR inspection reports can be used to demonstrate compliance with this regulation.

(3) Recordkeeping Requirement: DNR inspection reports

(4) Monitoring Requirement: Visual inspection performed during periodic DNR inspections

(5) Reporting Requirement: None

5. **Odor**

a. *Restriction of Odor Emissions*

- 10 CSR 10-2.070 (Kansas City Area)
- 10 CSR 10-3.090 (Outstate Missouri Area)
- 10 CSR 10-4.070 (Springfield-Green County Area)
- 10 CSR 10-5.160 (St. Louis Area)

- (1) Emission Limitation: This section requires that no person may cause, permit or allow the emissions of odorous matter in concentrations and frequencies or for durations that odor can be perceived when one (1) volume of odorous air is diluted with seven (7) volumes of odor-free air for two (2) separate trials not less than fifteen (15) minutes apart within the period of one (1) hour.
- (2) Compliance Demonstration: Previous DNR inspection reports can be used to demonstrate compliance with this regulation.
- (3) Recordkeeping Requirement: DNR inspection reports
- (4) Monitoring Requirement: Periodic DNR inspections
- (5) Reporting Requirement: None

6.02 **Various Grain and Feed Emission Units as Noted Below.**

1. **Particulate Matter**

a. *Restriction of Emission of Particulate Matter from Industrial Processes*

- 10 CSR 10-2.030 (Kansas City Area)
- 10 CSR 10-3.050 (Outstate Missouri Area)
- 10 CSR 10-4.030 (Springfield-Green County Area)
- 10 CSR 10-5.050 (St. Louis Area)

- (1) Emission Limitation: No person shall cause, suffer, allow or permit the emission of particulate matter in any one (1) hour from any source in excess of the amount determined by the following empirical equations:

$\leq 30$  tons per hour:  $E = 4.10 \times P^{0.67}$

$> 30$  tons per hour:  $E = 55.0 \times P^{0.11} - 40$

where E = emission limit in lbs./hr. and P = max. rated capacity in tons/hr.

- (2) Affected Grain and Feed Industry Emission Units.

(a) Grain and/or Feed Industry affected emission units:

- i. Bin Vents
- ii. Grain Cleaning (internal operation)

(b) Grain Industry affected emission units

- i. Tunnel Belts (if applicable - internal operation)
- ii. Gallery Belts (internal operation)
- iii. Headhouse (internal operation)

(c) Feed Industry affected emission units

- i. Receiving
- ii. Hammermilling
- iii. Flaking
- iv. Cracking
- v. Pellet Cooling
- vi. Shipping

- (3) Compliance Demonstration:

- (a) Feed Mill. For a feed mill the "worst case" emission unit is pelleting with a standard cyclone. The emission factor is 0.433 pound of PM per ton of feed. The "worst case" process rate is about 60 tph. If the highest rate for which compliance can be shown is greater than or equal to 60 tph, then 60 tph is obviously in compliance:

For P = 123 tph, E = 53.38 lbs/hr and ER = 123 tph X 0.433 lb/ton = 53.26 lbs/hr

The highest process rate for which compliance can be demonstrated is 123 tph. Therefore, the pelleting process at 60 tph, which is less than 123 tph, is in compliance. Since the "worst case" emission unit is in compliance, all other emission units at a feed mill are in compliance with this rule as well.

- (b) Grain Elevator. For a grain elevator the "worst case" emission unit is the headhouse at a large elevator. The emission factor is 0.087 pound of PM per ton of grain received as taken from

AP-42, Section 9.1. A mixed grain "dustiness" factor of 1.95 is considered as well. The "worst case" process rate is about 348 tph (approximately 12,000 bu/hr). If the highest rate for which compliance can be shown is greater than or equal to 348 tph, then 348 tph is obviously in compliance:

For  $P = 388 \text{ tph}$ ,  $E = 65.96 \text{ lbs/hr}$  and  $ER = 388 \text{ tph} \times 0.087 \text{ lb/ton} \times 1.95 = 65.82 \text{ lbs/hr}$

The highest process rate for which compliance can be demonstrated is 388 tph. Therefore, the headhouse at 348 tph, which is obviously less than 388 tph, is in compliance. Since the "worst case" emission unit is in compliance, all other emission units at a grain elevator are in compliance with this rule as well.

Previous DNR inspection reports can be used along with the above to demonstrate compliance with this regulation along with source verification of emissions as noted in (5) below.

- (4) Recordkeeping Requirement: DNR inspection reports
- (5) Monitoring Requirement: Periodic DNR inspections and source verification that the emissions are maintained at levels less than or equal to the values shown in the above compliance demonstration.
- (6) Reporting Requirement: None

- b. 10 CSR 10-6.070, Subpart DD, (40 CFR part 60), *Standards of Performance for Grain Elevators*.  
(See instructions and application form.)

**Check one:**

☒ Not Applicable      ☐ Applicable

- (1) Affected Facilities and Emission Limitations (Check the appropriate "yes" or "no" blank indicating applicability of this rule to an affected facility.)

**Applicable?**

Yes      No

The following affected facilities are limited to 5% opacity:

- (a) Truck unloading station
- (b) Railcar unloading station
- (c) Railcar loading station

The following affected facility is limited to 10% opacity:

- (d) Truck loading station

The following affected facility is limited to 20% opacity:

- (e) Barge or ship loading station

The following affected facility is limited to 0% opacity:

- (f) Grain dryer:

- i. Column dryer with column plate perforations > 2.4 mm diam. or
- ii. Rack dryer in which exhaust gases pass through a screen filter coarser than 50 mesh

The following affected facilities are limited to 0% opacity and 0.023 g/dscm (ca. 0.01gr/dscf):

- (g) Bucket elevators or legs (excluding legs used to unload barges or ships)
- (h) Scale hoppers and surge bins (garners)
- (i) Turn heads
- (j) Scalpers
- (k) Cleaners
- (l) Trippers
- (m) Headhouse and other such structures

The following affected facility is required to be operated as set forth below:

- (n) Barge or ship unloading station. The owner or operator of any barge or ship unloading station shall operate as follows:

- i. The unloading leg shall be enclosed from the top (including the receiving hopper) to the center line of the bottom pulley and ventilation to a control device shall be maintained on both sides of the leg and the grain receiving hopper.
- ii. The total rate of air ventilated shall be at least 32.1 actual cubic meters per cubic meter of grain handling capacity (ca. 40 ft<sup>3</sup>/bu).

- (2) Compliance Demonstration: Test results of performance testing specified in 40 CFR 60.303 and previous DNR inspection reports can be used to demonstrate compliance with this regulation.
- (3) Recordkeeping Requirement: None
- (4) Monitoring Requirement: Testing as specified in 40 CFR 60.303 shall be conducted on or after the sixtieth day after achieving a maximum production rate, but not later than 180 days after initial startup.
- (5) Reporting Requirement: The results of the testing shall be reported within 30 days of the completion of the testing.

## 6.03 Dryers/Boilers

### 1. Particulate Matter

#### a. Maximum Allowable Emissions of Particulate Matter from Fuel Burning Equipment Used for Indirect Heating

- 10 CSR 10-2.040 (Kansas City Area)
- 10 CSR 10-3.060 (Outstate Missouri Area)
- 10 CSR 10-4.040 (Springfield-Green County Area)
- 10 CSR 10-5.030 (St. Louis Area)

- (1) Emission Limitation: For Existing and New dryers or boilers with the following heat input ranges, the following emission limits or equations apply:

#### (a) Kansas City Area and St. Louis Area:

##### Check one:

- ☒ Not Applicable      ☐ Applicable

#### i. Existing - Commenced construction on or before February 15, 1975

- 1) Heat input rate less than 10 MMBtu/Hr., Emission Limit = 0.60 Lbs./MMBtu/Hr.
- 2) Heat input rate greater than or equal to 10 MMBtu/Hr. and less than 5000 MMBtu/Hr.,  

$$E = 1.09 \times Q^{-0.259}$$

- 3) Heat input rate greater than 5000 MMBtu/Hr., Emission Limit = 0.12 Lbs./MMBtu/Hr.

#### ii. New - Commenced after February 15, 1979

- 1) Heat input rate less than 10 MMBtu/Hr., Emission Limit = 0.40 Lbs./MMBtu/Hr.
- 2) Heat input rate greater than or equal to 10 MMBtu/Hr. and less than 5000 MMBtu/Hr.,  

$$E = 0.80 \times Q^{-0.301}$$
- 3) Heat input rate greater than 5000 MMBtu/Hr., Emission Limit = 0.12 Lbs./MMBtu/Hr.

#### (b) Outstate Missouri Area:

##### Check one:

- ☐ Not Applicable      ☒ Applicable

#### i. Existing - Commenced construction on or before April 3, 1971

- 1) Heat input rate 10 MMBtu/Hr. or less, Emission Limit = 0.60 Lbs./MMBtu/Hr.
- 2) Heat input rate between 10 MMBtu/Hr. and 10,000 MMBtu/Hr.,  $E = 0.90 \times Q^{-0.174}$
- 3) Heat input rate 10,000 MMBtu/Hr. or more, Emission Limit = 0.18 Lbs./MMBtu/Hr.

#### ii. New - Commenced after April 3, 1971

- 1) Heat input rate 10 MMBtu/Hr. or less, Emission Limit = 0.60 Lbs./MMBtu/Hr.
- 2) Heat input rate between 10 MMBtu/Hr. and 2000 MMBtu/Hr.,  $E = 1.31 \times Q^{-0.338}$
- 3) Heat input rate 2000 MMBtu/Hr. or more, Emission Limit = 0.10 Lbs./MMBtu/Hr.

#### (c) Springfield-Green County Area:

##### Check one:

- ☒ Not Applicable      ☐ Applicable

- 1) Heat input rate 10 MMBtu/Hr. or less, Emission Limit = 0.60 Lbs./MMBtu/Hr.
- 2) Heat input rate between 10 MMBtu/Hr. and 10,000 MMBtu/Hr.,  $E = 1.02 \times Q^{-0.223}$
- 3) Heat input rate 10,000 MMBtu/Hr. or more, Emission Limit = 0.12 Lbs./MMBtu/Hr.

Where E = particulate emission rate in Lbs./MMBtu/Hr. and Q = the dryer or boiler rated heat input in MMBtu/Hr

- (2) Compliance Demonstration: The "worst case" unit for either a grain elevator or feed mill is a 10 MMBtu/hr boiler fired with #5 fuel oil, which has a TSP emission factor of 10 lbs/1000 gal. The PM emission limit is 0.60 lb/MMBtu/hr. If while burning #5 fuel oil in the "worst case" boiler the PM ER is  $\leq$  0.60 lb/MMBtu/hr, then all boilers and dryers at all grain and feed installations are in compliance.

$$\begin{aligned} \text{ER} &= (10 \text{ lbs}/1000 \text{ gal}) \times (1 \text{ gal}/150000 \text{ Btu}) \times (10 \text{ MMBtu}/\text{hr}) \times (1/10 \text{ MMBtu}) \\ &= 0.07 \text{ lbs}/\text{MMBtu}/\text{hr} < 0.60 \text{ lbs}/\text{MMBtu}/\text{hr} \end{aligned}$$

Therefore, all indirect heating units at grain and feed installations are in compliance. Previous DNR inspection reports can be used along with the above to demonstrate compliance with this regulation along with source verification of emissions as noted in e. below.

- (3) Recordkeeping Requirement: DNR inspection reports  
(4) Monitoring Requirement: Periodic DNR inspections and source verification that the emissions are maintained at levels less than or equal to the values shown in the above compliance demonstration.  
(5) Reporting Requirement: None

## 2. SO<sub>2</sub>

### a. *Restriction of Emissions of Sulfur Compounds from Indirect Heating Sources*

- 10 CSR 10-2.200 (Kansas City Area)
- 10 CSR 10-3.150 (Outstate Missouri Area)
- 10 CSR 10-4.190 (Springfield-Greene County Area)
- 10 CSR 10-5.110 (St. Louis Area)

- (1) Emission Limitation: Applies to installations in which fuel is burned for the primary purpose of producing steam, hot water or hot air or other indirect heating of liquids, gases or solids and in the course of doing so, the products of combustion do not come into direct contact with process materials.

- 
- (a) ~~Kansas City Area, Outstate Missouri Area, and Springfield-Greene County Area (Outstate Missouri is all of Missouri except for Kansas City, Springfield-Greene County, and St. Louis Areas):~~

**Check one:**

☐ Not Applicable      ☒ Applicable

For indirect heating sources  $\geq$  350,000 Btu/hr actual heat input:

No person shall cause or allow emissions of sulfur dioxide into the atmosphere from any indirect heating source in excess of eight (8) pounds of sulfur dioxide per MMBtu actual heat input averaged on any three (3) hour basis.

- (b) St. Louis Area:

**Check one:**

☒ Not Applicable      ☐ Applicable

- i. For indirect heating sources  $\geq$  2,000 MMBtu/hr actual heat input:  
No person shall cause or allow emissions of sulfur dioxide into the atmosphere from any indirect heating source in excess of 2.3 pounds of sulfur dioxide per MMBtu actual heat input averaged on any three (3) hour basis.
- ii. For indirect heating sources  $<$  2,000 MMBtu/hr actual heat input:  
No person shall burn or permit the burning of any fuel oil containing more than two percent (2%) sulfur during the months of October, November, December, January, February and March each year, otherwise the limit shall be four percent (4%) sulfur. Unless the installation can show that the emissions of sulfur dioxide from the installation into the atmosphere will not exceed 2.3 pounds per MMBtu of heat input.

- (2) Compliance Demonstration: The "worst case" unit for either a grain elevator or feed mill is a 10



MMBtu/hr boiler fired with #5 fuel oil, which has a SO<sub>2</sub> emission factor of "159 X Sulfur Content (%)" / 1000 gal and "worst case" sulfur content of 2%. In reality, it will be no higher than 1.5%. The SO<sub>2</sub> emission limit is 8.0 lb/MMBtu/hr. For the St. Louis area, the most restrictive limit is a 2% limit on fuel oil sulfur content which will be the highest content for this boiler. If while burning #5 fuel oil in the "worst case" boiler the SO<sub>2</sub> ER is ≤ 8.0 lb/MMBtu/hr, then all boilers and dryers at all grain and feed installations are in compliance.

$$\begin{aligned} \text{ER} &= ((159 \times 2) \text{ lbs/1000 gal}) \times (1 \text{ gal/150000 Btu}) \times (10 \text{ MMBtu/hr}) \times (1/10 \text{ MMBtu}) \\ &= 2.12 \text{ lbs/MMBtu/hr} < 8.0 \text{ lbs/MMBtu/hr} \end{aligned}$$

Therefore, all indirect heating units at grain and feed installations are in compliance. Even if the sulfur content were 4%, the "worst case" boiler would still be in compliance, except for 6 months out of the year in the St. Louis Area:

$$\begin{aligned} \text{ER} &= ((159 \times 4) \text{ lbs/1000 gal}) \times (1 \text{ gal/150000 Btu}) \times (10 \text{ MMBtu/hr}) \times (1/10 \text{ MMBtu}) \\ &= 4.24 \text{ lbs/MMBtu/hr} < 8.0 \text{ lbs/MMBtu/hr} \end{aligned}$$

Previous DNR inspection reports can be used along with the above to demonstrate compliance with this regulation along with source verification of emissions as noted in e. below.

- (3) Recordkeeping Requirement: DNR inspection reports
- (4) Monitoring Requirement: Periodic DNR inspections and source verification that the emissions are maintained at levels less than or equal to the values shown in the above compliance demonstration.
- (5) Reporting Requirement: None

### 3. General

#### a. 10 CSR 10-5.120, *Information on Sales of Fuels to be Provided and Maintained*

(Note: St. Louis Area installations only that receive deliveries of residual fuel oil -- grade Nos. 4, 5 and 6)

#### Check one:

☒ Not Applicable      ☐ Applicable

- (1) Emission Limitation: None
- (2) Recordkeeping Requirement: Every delivery of residual fuel oil when first delivered to a consumer or wholesaler in the St. Louis metropolitan area must be accompanied by a ticket prepared in triplicate and containing at least the name and address of the seller and the buyer and the source of the fuel. One (1) copy of each ticket shall be kept by the person delivering the fuel and be retained for one (1) year; and one (1) copy is to be given to the recipient of the fuel to be retained for one (1) year.
- (3) Monitoring Requirement: Periodic DNR inspections
- (4) Reporting Requirement: Upon request, within thirty (30) days after delivery of the fuel, the delivering party shall mail one (1) copy to the Air Conservation Commission.

#### 6.04 **Kansas City Local Rules.** Kansas City Health Department, Air Quality Section, Chapter 18, Article III - Air Pollution (Chapter 8, Air Quality)

#### Check one:

☒ Not Applicable      ☐ Applicable

- Section 8-4. Open Burning
- Section 8-5. Emission of Particulate Matter
- Section 8-6. Emission of Sulfur Compounds
- Section 8-7. Emission of Odors
- Section 8-8. Emission of Volatile Organic Compounds
- Section 8-9. Emission of Hazardous Air Pollutants
- Section 8-10. Review of New Sources and Modifications; Permit for Construction or Major Modification
- Section 8-11. Permit to Operate
- Section 8-12. Dilution of Emission
- Section 8-15. Emissions Resulting from Uncontrollable Force or Malfunctions
- Section 8-16. Actionable Rights; Violations Declared Public Nuisance

- Section 8-17. Emergency Conditions
- Section 8-18. Control of Emissions During Periods of High Air Pollution Potential
- Section 8-19. Penalty for Violation of Chapter
- Section 8-20. Fees

6.05 **Springfield-Greene County Local Rules.** Springfield-Greene County, Air Pollution Control Authority, Chapter 2A - Air Pollution Control Standards

**Check one:**

☒ Not Applicable      ☐ Applicable

- Article III Approval of Planned Installations
- Article IV Restriction of Emission of Visible Air Contaminants from Equipment
- Article V Emission of Particulate Matter from Fuel Burning Equipment
- Article VI Restriction of Emission of Particulate Matter from Industrial Processes
- Article VIII Open Burning
- Article X Control of Odors in the Ambient Air
- Article XI Nuisances Because of Air Pollution
- Article XII Submission of Information
- Article XIII Variance Provisions
- Article XVI Breakdown of Equipment
- Article XVII Circumvention
- Article XVIII Service of Orders or Notices
- Article XIX Enforcement of This Chapter

6.06 **St. Louis County Local Rules.** St. Louis County Department of Health, Air, Land & Water Branch, Air Pollution Control Section, Chapter 612 - Air Pollution Control Code

**Check one:**

☒ Not Applicable      ☐ Applicable

- 
- 612.100 Emergency Abatement of Violation - Procedure
  - 612.110 Permits Required
  - 612.120 Permits to be Visibly Affixed or Placed
  - 612.130 Permit to Sell or Rent
  - 612.140 Transfer
  - 612.150 Permit to Operate - When Required
  - 612.160 General Requirements for Applications for Authority to Construct and Operating Permits
  - 612.170 Information Required for Application for Permits
  - 612.180 Standards for Granting Permits
  - 612.190 Cancellation of Authority to Construct
  - 612.200 Testing Prior to Granting of Operating Permits
  - 612.210 Action on Application for Permits
  - 612.220 Suspension or Revocation of Permits
  - 612.230 Suspension of Revocation of Operating Permits or Authority to Construct, Board Hearing, Stay of Action
  - 612.240 Surrender of Permits
  - 612.250 Fees, When Payable, Exceptions
  - 612.260 Permit Fees; Schedules
  - 612.270 Permit Fees; Refund
  - 612.280 Testing by Order of the Board
  - 612.290 Right of Entry; Inspections; Samples
  - 612.300 Variances
  - 612.310 Upset Conditions, Breakdown, or Scheduled Maintenance
  - 612.320 Service of Notice
  - 612.340 Air Pollution Nuisances Prohibited
  - 612.370 False or Misleading Oral Statements; Unlawful Reproduction or Alteration of Documents
  - 612.380 Interfering with or Obstructing Division Personnel
  - 612.390 Penalties for Violation
  - 612.400 Construction

6.07 **City of St. Louis Local Rules.** City of St. Louis, Division of Air Pollution Control

**Check one:**

☒ Not Applicable      ☐ Applicable

Ordinance 50163:

Section 15 When Emissions of Pollutants Become a Nuisance  
Section 17 Registration of Sources of Air Pollutants  
Section 18 Permits for Fuel or Refuse Burning Equipment  
Section 19 Labels to be Affixed to Approved Installations  
Section 21 Commissioner to Approve Plans and Issue Permits  
Section 22 Amended by 55293  
Section 23 Commissioner May Enter Premises  
Section 27 Penalty Clause

Ordinance 55293:

Section 1 Amendment of Section 22 of 50163 - Fees

Ordinance 59270:

Section 8 Maximum Allowable PM from Indirect Heating  
Section 9 Use of Hand Fired Equipment Prohibited  
Section 10 Amended by 60023  
Section 12 Open Burning Restrictions  
Section 14 Restriction of Emissions of Visible Air Contaminants  
Section 15 Preventing Air Contaminants from Becoming Air-borne  
Section 16 Restriction of the Emission of SO<sub>2</sub> from Use of Fuel  
Section 17 Importation, Sale, Transportation, Use of Certain Coals  
Section 18 Information on Sales of Fuels to be Provided and Maintained  
Section 20 Control of Odors in the Ambient Air  
Section 22 Air Pollution Nuisances Prohibited  
Section 33 Emergency Procedures  
Section 34 Rules for Controlling Emissions During Periods of High Air Pollution  
Section 36 Measurements of Emissions of Air Contaminants  
Section 37 Upset Conditions, Breakdown or Scheduled Maintenance  
Section 39 Permits and Inspection Fees  
Section 40 Rules Governing Sources in Non-Attainment Areas and PSD in Attainment Areas  
Section 41 Alternate Emission Limits  
Section 42 Enforcement  
Section 43 Right of Inspection and Disclosure of Production Data  
Section 44 Confidentiality of Records  
Section 45 Cooperation Required  
Section 46 Circumvention  
Section 47 Continuation  
Section 48 Penalty Clause  
Section 49 Severability  
Section 50 Emergency Clause

Ordinance 60023:

Section 1 Amendment of Section 10 of Ordinance 59270 - Restriction of PM from Industrial Processes  
Section 5 Amended by 60629  
Section 10 Continuation  
Section 11 Penalty Clause  
Section 12 Severability

Ordinance 60629:

Section 2 Amendment of Section 5 of Ordinance 60023 - New Performance Standards Adopted  
Section 6 Continuation  
Section 7 Penalty Clause  
Section 8 Severability

## Section 7.0 - Pollution Control Requirements

7.01 The permittee shall limit emissions by the operation of control equipment required by the following:

1. **Present Particulate Control Device Requirements** contained in "Permits to Construct" issued by the permitting authority as noted in Table A in Section IV - Present Permit Conditions.

Check one:

☒ Not Applicable      ☐ Applicable

2. **New particulate control device requirements** to qualify this installation as an "Intermediate State Installation" as contained in Table 2 in Section III Option C5. (This control would have been noted in the "emission worksheet.")

Check one:

☐ Not Applicable      ☒ Applicable

7.02 All required particulate control devices noted in Table A in Section IV and Table 2 in Section III Option C5. shall be implemented upon the respective emission units at all times that the units are in operation. When control devices are operated, they shall be operated in accordance with the following, if applicable:

1. **Oil-based dust-suppression system.**

- a. An **oil-based dust-suppression system** shall be designed, maintained and operated to apply as the minimum one-half (1.5) gallons of mineral or refined soybean oil per one thousand (1000) bushels of grain; once grain is oiled, control factors for oil-based dust-suppression may be applied in all further emission units through which the grain passes if a record of oiling is maintained.
- b. Control factors for oil-based dust-suppression, if oil is applied in accordance with a. above, may be allowed at another plant or source if a copy of all records of such oiling is transmitted with the grain.
- c. **Records** of the monthly ratio of oil applied to grain oiled in gallons per 1000 bushels of grain **shall be kept**, along with the calculation resulting in this ratio.

2. **Fabric filter (baghouse) system.**

- a. A **fabric filter (baghouse) system** shall be designed, maintained and operated to ensure optimal efficiency in the removal of  $PM_{10}$ .
- b. The baghouse shall be equipped with a gauge or meter which indicates the pressure drop across the baghouse.
- c. Records of maintenance performed on the baghouse system shall be kept, including bag replacement and dates of replacement.
- d. Replacement bags shall be kept on hand at all times.

3. **Cyclone system.**

- a. A **cyclone system** shall be designed, maintained and operated to ensure optimal efficiency in the removal of  $PM_{10}$ .
- b. Records of maintenance performed on the cyclone system shall be kept.

## Section 8.0 - Production or Processing Limits.

The permittee shall limit emissions by limiting the quantity of grain and/or other feed ingredients received or quantity of feed or other products produced to the following:

8.01 **Existing grain receiving, processing or feed production Permit limits** established by permit conditions

contained in "Permits to Construct" issued by the permitting authority as noted in Table B (for Intermediate State Installations) in Section IV - Existing Permit Conditions.

**Check one:**

☒ Not Applicable      ☐ Applicable

**NOTE: In a situation in which both this Section 8.01 and 8.02 apply, the more restrictive limit shall apply to this installation.**

- 8.02 **New grain receiving and/or feed production limits** required to qualify this installation as an "Intermediate State Installation" as contained in Table 1 in Section III Option C5. (This limit would have been indicated in the "emission worksheet.")

**Check one:**

☐ Not Applicable      ☒ Applicable

- 8.03 **Grain receiving and/or production recordkeeping.**

**NOTE: This subsection shall apply only if Section 8.01 or 8.02 is applicable.**

**Check one:**

☐ Not Applicable      ☒ Applicable

Monthly records of grain received or processed, or feed produced or processed, whichever is applicable, shall be kept in order to demonstrate compliance with limits established in Sections 8.01 and 8.02. Records shall also be kept to demonstrate totals for each twelve-month (12-month) rolling period.

- 8.04 **Grain receiving and/or production reporting.**

**NOTE: This subsection shall apply only if Section 8.01 or 8.02 is applicable.**

**Check one:**

☐ Not Applicable      ☒ Applicable

This installation shall report to the Air Pollution Control Enforcement Section, no later than ten (10) days after the end of each month, if the 12-month cumulative total records show that the source exceeded the limitation established in Section 8.01 or 8.02.

## **Section 9.0 - Fuel Combustion Limits .**

The permittee shall limit amounts and types of fuel combusted as follows:

- 9.01 **Present fuel combustion limits** established by permit conditions contained in "Permits to Construct" issued by the permitting authority as noted in Table C in Section IV - Present Permit Conditions.

**Check one:**

☒ Not Applicable      ☐ Applicable

**NOTE: In a situation in which both this Section 9.01 and Section 9.02 apply, the more restrictive limit shall apply to this installation.**

- 9.02 **New Fuel Oil Combustion Limit(s)** required to qualify this installation as an "Intermediate State Installation" as contained in Table 3 in Section III Option C5. (This limit would have been indicated in the "emission worksheet.")

**Check one:**

☒ Not Applicable      ☐ Applicable

9.03 **Fuel Combustion Recordkeeping.**

**Note:** This subsection shall apply only if Section 9.01 or 9.02 applies.

**Check one:**

☒ Not Applicable      ☐ Applicable

Monthly records of fuel(s) combusted and other fuel data, if applicable, shall be kept in order to demonstrate compliance with limits established in Sections 9.01 and 9.02. Records shall also be kept to demonstrate the total(s) for the previous twelve-month (12-month) period.

9.04 **Fuel Combustion Reporting.**

**NOTE:** This subsection shall apply only if Section 9.01 or 9.02 is applicable.

**Check one:**

☒ Not Applicable      ☐ Applicable

This installation shall report to the Air Pollution Control Enforcement Section, no later than ten (10) days after the end of each month, if the 12-month cumulative total records show that the source exceeded the limitation established in Section 9.01 or 9.02.

**Section 10.0 - Records Retention**

- 10.01 All recordkeeping must be retained at the installation for a minimum period of five (5) years, and shall be made available immediately to representatives of the permit authority upon verbal request.
- 10.02 The permittee shall maintain a copy of this permit at this installation. A copy of this permit shall be placed on-file at each approved source no later than 30 days after the date of the letter of transmittal.

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**Section 11.0 - Inspection and Entry**

- 11.01 The permittee shall allow authorized representatives of the permitting authority to perform the following:
1. Enter upon the permittee's premises where the Basic or Intermediate State source or activity is located or conducted, or where records must be kept under the conditions of this permit;
  2. Have access to and copy at reasonable times any records that must be kept under the conditions of this permit;
  3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operation regulated or required under this permit; and
  4. Sample or monitor any substances or parameters at any location, during operating hours, for the purpose of assuring permit compliance.
- 11.02 No person shall obstruct, hamper, or interfere with any such authorized representative while in the process of carrying out her/his official duties. Refusal of entry or access may constitute grounds for permit revocation and enforcement action.

## COUNTRY ELEVATOR

## Attachment B

PM10:

Emission Unit:						Annual Process Limits						(G)
(A)	(B)	(C)	Acceptable Annual Process Limits:			OR	Factor Times Receiving Limit:				Proc. Limit	
Name	ID#	(bu./yr.	X	(D)	/2000	OR	(E)	X	(F)	=	(TPY)	
				lbs./bu.			(Factor		Rec. Limit*)			
1 Receiving	1	20,000	X	58	/2000	OR	(LEAVE BLANK FOR RECEIVING)			=	580,000	
2 Shipping	5		X		/2000	OR	1	X	580,000	=	580,000	
3 Bin Vent	9		X		/2000	OR	2.1	X	580,000	=	1,218,000	
4 Grain Drying	6		X		/2000	OR	0.3	X	580,000	=	174,000	
5 Internal Operations	2		X		/2000	OR	3.1	X	580,000	=	1,798,000	

(A)	(B)	(G)		(H)		(I)	(J)		(K)
Name**	ID#**	Proc. Limit**	X	AP-42 EF (lbs./ton)	X	CF	Control Device Type	=	Process Emission Rate (lbs./yr.)
6 Receiving	1	580,000	X	0.0375	X	0.05	Baghouse	=	1,088
7 Shipping	5	580,000	X	0.0075 - 0.1	X	1.0	No Control	=	58,000
8 Bin Vent	9	1,218,000	X	0.0125	X	1.0	No Control	=	15,225
9 Grain Drying	6	174,000	X	0.055	X	1.0	No Control	=	9,570
10 Internal Operations	2	1,798,000	X	0.2	X	0.05 x 0.1	Baghouse & Full Enclosure	=	1,798
11 TOTAL ELEVATOR PM10 (LBS./YR.) =									85,681 LBS./YR.
12 TOTAL PM10 (TPY) = 85,681 (LBS./YR.)/2000 + 0.12 TPY (Dryer) = 43.0 TPY									

\*Same as Receiving Process Limit in Column (G).

\*\*Same as columns in top half of page.

## COMBUSTION UNITS

## Grain Dryers:

#1 Grain Dryer ID#: 1Heat Input = 36 MMBtu/Hr.Fuel Combusted: NATURAL GASMax. Hourly Fuel Rate = 36 MMBtu/Hr. / 1000 MMBtu/MMCF 0.036  
(Heating Value) (Units/Hr)

(A)	(B)	(C)	(D)	(E)	(F)
	Emission	Max.	Emission		
Pollutants =	Factors	Hrly. Rate	Rate		
	X	(Units/Hr)	(TPY)		
PM10 =	<u>7.6/MMCF</u> X	<u>0.036</u>	X 4.38 =	<u>1.2</u>	+
SOx =	<u>0.6 LB/MMCF</u> X	<u>0.095</u>	X 4.38 =	<u>0.02</u>	+
NOx =	<u>100 LB/MMCF</u> X	<u>0.036</u>	X 4.38 =	<u>15.8</u>	+
VOC =	<u>5.5 LB/MMCF</u> X	<u>0.036</u>	X 4.38 =	<u>0.9</u>	+
CO =	<u>84 LB/MMCF</u> X	<u>0.036</u>	X 4.38 =	<u>13.2</u>	+

## Boilers:

#1 Boiler ID#: \_\_\_\_\_

Heat Input = \_\_\_\_\_ MMBtu/Hr.

Fuel Combusted: \_\_\_\_\_

Potential Fuel Rate = \_\_\_\_\_ MMBtu/Hr. / \_\_\_\_\_ X 8760 = \_\_\_\_\_  
(Heating Value) (Units/Yr)Fuel Limit (if desired or needed) = \_\_\_\_\_  
(Units/Yr)

(J)	(K)	(L)	(M)	(N)	(O)
	Emission	Sulfur	Fuel	Emission	
Pollutants =	Factors	Content	Rate	Rate	
	X	%	(Units/Yr)	(TPY)	
13 PM10 =	_____	X0.0005X	_____	_____	+
14 SOx =	_____	X0.0005X	_____	_____	+
15 NOx =	_____	X0.0005X	_____	_____	+
16 VOC =	_____	X0.0005X	_____	_____	+
17 CO =	_____	X0.0005X	_____	_____	+
18 TOTAL SOx =	_____	(TOTAL DRYER SOx)	+	(TOTAL BOILER SOx)	=
19 TOTAL NOx =	_____	(TOTAL DRYER NOx)	+	(TOTAL BOILER NOx)	=
20 TOTAL VOC =	_____	(TOTAL DRYER VOC)	+	(TOTAL BOILER VOC)	=
21 TOTAL CO =	_____	(TOTAL DRYER CO)	+	(TOTAL BOILER CO)	=

## Attachment D

#2 Grain Dryer ID#: \_\_\_\_\_

Heat Input = \_\_\_\_\_ MMBtu/Hr.

Fuel Combusted: \_\_\_\_\_

Max. Hourly Fuel Rate = \_\_\_\_\_ MMBtu/Hr. / \_\_\_\_\_ = \_\_\_\_\_  
(Heating Value) (Units/Hr)

(F)	(G)	(H)	(I)
	Max.	Emission	Total Dryer
Emission	Hrly. Rate	Rate	Em. Rate
Factors	(Units/Hr)	(TPY)	(TPY)
X	_____	X 4.38 =	_____
X	_____	X 4.38 =	_____
X	_____	X 4.38 =	_____
X	_____	X 4.38 =	_____
X	_____	X 4.38 =	_____

#2 Boiler ID#: \_\_\_\_\_

Heat Input = \_\_\_\_\_ MMBtu/Hr.

Fuel Combusted: \_\_\_\_\_

Potential Fuel Rate = \_\_\_\_\_ MMBtu/Hr. / \_\_\_\_\_ X 8760 = \_\_\_\_\_  
(Heating Value) (Units/Yr)Fuel Limit = \_\_\_\_\_  
(Units/Yr) (Total Fuel Limit)

(O)	(P)	(Q)	(R)	(S)
	Sulfur	Fuel	Emission	Total Boiler
Emission	Content	Rate	Rate	Emission
Factors	%	(Units/Yr)	(TPY)	Rate
X	_____	X0.0005X	_____	(TPY)
X	_____	X0.0005X	_____	_____
X	_____	X0.0005X	_____	_____
X	_____	X0.0005X	_____	_____
X	_____	X0.0005X	_____	_____
TPY	_____	TPY	_____	_____
TPY	_____	TPY	_____	_____
TPY	_____	TPY	_____	_____
TPY	_____	TPY	_____	_____